EVIN JAFF

Computer Science and Biomedical Engineering Student

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EDUCATION

Washington University in St. Louis

Doctorate, Computer Science

📅 August 2023 – Present   📍 St. Louis, MO

Washington University in St. Louis

Bachelors, Biomedical Engineering & Computer Science

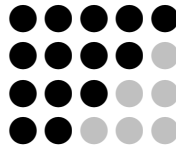📅 August 2019 – May 2023   📍 St. Louis, MO

TECHNICAL SKILLS

MATLAB+Simulink, Python, Java ●●●●●
Swift, JavaScript, C++, LaTeX ●●●●○
TypeScript, C, SolidWorks ●●●○○
Multisim, C#, Mathematica, R ●●○○○

WORK EXPERIENCE

Graduate Researcher

Washington University Security and Privacy Lab

📅 August 2023 – May 2025   📍 St. Louis, MO

Computer security researcher advised by Umar Iqbal and Ning Zhang. Studied third-party app security in Large Language Models and internet privacy. See "publications" for papers.

Software Engineer Intern - Mobile

Zillow

📅 May 2023 – August 2023   📍 Seattle, WA

Intern for Premium Listings iOS app team within at Zillow. Built "Learn More" feature to Showcase listings that explains the benefits of premium listings. Also optimized home listings to load infrequent static images not part of database calls via CDN to reduce app bundle size by 15 MB.

Undergraduate Researcher

Washington University Cyber Physical Systems Lab

📅 August 2022 – May 2023   📍 St. Louis, MO

Worked on medical machine learning project with supervision from existing PhD Student. Built clustering models to identify digital phenotypes in Stroke Patients using Heart Rate Variability data.

Engineering Intern - Bio-instrumentation/Software

Garmin Ltd.

📅 May 2022 - August 2022   📍 Olathe, KS

Intern with Garmin Health. Worked on development for a machine learning model to monitor blood pressure optically. Developed clinical study run in Taiwan, wrote firmware patches, and trained models on received data with competitive accuracy.

PUBLICATIONS

- 2024 (preprint), Jaff, Wu, Iqbal, Wu: *Longitudinal Measurement and Analysis of LLM Platform Apps: A case study with OpenAI's ChatGPT*

HONORS & AWARDS

- Skandalaris Center Honors in Innovation and Entrepreneurship, (2023)
- Award of Excellence in Technical Writing with a Computer Science Focus, (2022)
- Olin Big IdeaBounce Finalist, (2020)
- Holobaugh Honors Compton Emerging Leader Award, (2019)
- Washington State Academic Honors, (2019)
- Eagle Scout with Gold Palm, (2017)

PROJECTS

CardioConnect EKG Shirt

- For senior project, designed and built working prototype of a wearable EKG shirt on a team using custom built dry electrodes. Final prototype was fully modular and able to take EKGs with clinical signal accuracy. Competed in the SlingHealth venture cycle and won 3rd place at the Washington University BME Day competition. (link: bit.ly/ekgshirt).

Detection of Iatrogenic Ureteral Injury

- As a junior, was invited to lead software development and worked on hardware for group trying to detect injury during robotic uretal surgery. Prototyped a system with thermistors to be embedded in a surgical stent and on surrounding tissue to detect if certain regions were reaching unsafe temperatures and extrapolate whether the heated scalpel should be withdrawn to prevent damage. (link: bit.ly/uretal-injury)

Connections Button

- Invented new use for an IoT button using AWS IoT and Twilio that relays a distress signal to a crisis hotline for students in need of rapid assistance. Partnered with local school to develop beta program. Interviewed by local news (link: bit.ly/k5evin). Featured in Skandalaris Creator's Gallery and Washington University in St. Louis' Engineering Magazine. (link: bit.ly/evinbutton)